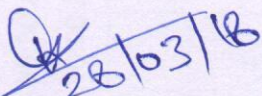


Report of One Week Hands-on Short Term Training Program on "Implementation of Power Electronics Converter using Microcontroller" at SATI, Vidisha under TEQIP-III Twinning Program

One Week Hands-on STTP on "Implementation of Power Electronics Converter using Microcontroller" has been conducted at SATI Vidisha (MP) for students (UG/PG) and faculty members during 17 March (Saturday) to 21 March (Wednesday) 2018 under TEQIP-III Twinning Program between VNIT Nagpur and SATI Vidisha.

Currently, ARM Cortex M4 32-bit Microcontroller is being used widely in power electronics embedded applications ranging from few watts to several megawatts. To provide training to students thoroughly in this area, they have to be skilled enough for any industrial job related to Embedded Power Electronics applications. With this objective, Electrical Engineering Department of VNIT Nagpur and SATI Vidisha organized this One Week STTP *Sponsored by TEQIP-III, MHRD, Government of India* for UG, PG Students and Research Scholars at SATI Vidisha. During the STTP, Hands-on Practical training has been given to the participants on (i) Basic Power Electronics Converters using 8051 Microcontroller, (ii) General Purpose Input Output (GPIO), Timers, Advanced PWM Timers, ADC/DAC, and QEI of STM32F407xx Controller for Power Electronics System. Participants gained the real laboratory experimental development knowledge on power electronic system control.

Experts for the STTP was Prof. M. A. Mulla (Professor, EED, SVNIT, Surat) and Mr. Yaseen Sayyed (Sr. Engineer, NiTech, Surat). Prof. S. P. Phulambrikar (Prof and HOD, EED, SATI, Vidisha) and Dr. Pradyumn Chaturvedi (Assistant Professor, EED, VNIT, Nagpur) have also delivered expert lecture during the program.


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